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1. Document ID: KR 336673 B FR 2769210 A1 WO 9917733 A1 AU 9893542 A NO
 9902649 A EP 969799 A1 CN 1241138 A CZ 9902073 A3 BR 9806218 A JP 2000507990 W HU
 200001343 A2 NZ 335516 A AU 730735 B MX 9904997 A1 KR 2000069231 A NZ 335523 A
 RU 2172162 C2 US 20020010966 A1 US 6342078 B1

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TITLE: Oxidative hair dye compositions - containing oxidising system based on
 oxidoreductase enzyme

INVENTOR: COTTERET, J; DE LA METTRIE, R ; DE LABBEY, A ; MAUBRU, M

PRIORITY-DATA: 1997FR-0012350 (October 3, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
KR 336673 B	May 13, 2002		000	A61K007/13
FR 2769210 A1	April 9, 1999		034	A61K007/13
WO 9917733 A1	April 15, 1999	F	000	A61K007/13
AU 9893542 A	April 27, 1999		000	A61K007/13
NO 9902649 A	July 30, 1999		000	A61K007/13
EP 969799 A1	January 12, 2000	F	000	A61K007/13
CN 1241138 A	January 12, 2000		000	A61K007/13
CZ 9902073 A3	April 12, 2000		000	A61K007/13
BR 9806218 A	April 18, 2000		000	A61K007/13
JP 2000507990 W	June 27, 2000		034	A61K007/13
HU 200001343 A2	September 28, 2000		000	A61K007/13
NZ 335516 A	November 24, 2000		000	A61K007/13
AU 730735 B	March 15, 2001		000	A61K007/13
MX 9904997 A1	February 1, 2000		000	A61K007/13
KR 2000069231 A	November 25, 2000		000	A61K007/13
NZ 335523 A	September 28, 2001		000	A61K007/13
RU 2172162 C2	August 20, 2001		000	A61K007/13
US 20020010966 A1	January 31, 2002		000	A61K007/13
US 6342078 B1	January 29, 2002		000	C09B067/00

, RU 2172162 C2 INT-CL (IPC): A61 K 7/13; C09 B 67/00

ABSTRACTED-PUB-NO: FR 2769210A

BASIC-ABSTRACT:

Composition for dyeing keratinic fibres comprises a carrier, at least one oxidation dye precursor, at least one first coupler selected from m-phenylenediamines of formula (I) and their acid-addition salts, at least one second coupler selected from m-aminophenols and m-diphenols, at least one 2-electron oxidoreductase enzyme and at least one substrate for the enzyme. In formula (I), R1 = H, 1-4C alkyl, 1-4C monohydroxyalkyl or 2-4C polyhydroxyalkyl; R2 and R3 = H, 1-4C alkyl, 1-4C

monohydroxyalkoxy or 2-4C polyhydroxyalkoxy; R4 = H, 1-4C alkoxy, 1-4C aminoalkoxy, 1-4C monohydroxyalkoxy, 2-4C polyhydroxyalkoxy or 2,4-diaminophenoxyalkoxy; provided that R1-R4 are not all H.

USE - Especially for dyeing human hair by applying the composition to the hair until the desired colour has developed, preferably where the composition is prepared just before use by mixing a composition containing the oxidation dye precursor(s) and couplers with a composition containing the enzyme and substrate.

ADVANTAGE - Uniform strong colours with good resistance to light, weather, perspiration and other hair treatments, e.g. shampooing and permanent waving, can be obtained.

ABSTRACTED-PUB-NO:

US 6342078B EQUIVALENT-ABSTRACTS:

Composition for dyeing keratinic fibres comprises a carrier, at least one oxidation dye precursor, at least one first coupler selected from m-phenylenediamines of formula (I) and their acid-addition salts, at least one second coupler selected from m-aminophenols and m-diphenols, at least one 2-electron oxidoreductase enzyme and at least one substrate for the enzyme. In formula (I), R1 = H, 1-4C alkyl, 1-4C monohydroxyalkyl or 2-4C polyhydroxyalkyl; R2 and R3 = H, 1-4C alkyl, 1-4C monohydroxyalkoxy or 2-4C polyhydroxyalkoxy; R4 = H, 1-4C alkoxy, 1-4C aminoalkoxy, 1-4C monohydroxyalkoxy, 2-4C polyhydroxyalkoxy or 2,4-diaminophenoxyalkoxy; provided that R1-R4 are not all H.

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Composition for dyeing keratinic fibres comprises a carrier, at least one oxidation dye precursor, at least one first coupler selected from m-phenylenediamines of formula (I) and their acid-addition salts, at least one second coupler selected from m-aminophenols and m-diphenols, at least one 2-electron oxidoreductase enzyme and at least one substrate for the enzyme. In formula (I), R1 = H, 1-4C alkyl, 1-4C monohydroxyalkyl or 2-4C polyhydroxyalkyl; R2 and R3 = H, 1-4C alkyl, 1-4C monohydroxyalkoxy or 2-4C polyhydroxyalkoxy; R4 = H, 1-4C alkoxy, 1-4C aminoalkoxy, 1-4C monohydroxyalkoxy, 2-4C polyhydroxyalkoxy or 2,4-diaminophenoxyalkoxy; provided that R1-R4 are not all H.

USE - Especially for dyeing human hair by applying the composition to the hair until the desired colour has developed, preferably where the composition is prepared just before use by mixing a composition containing the oxidation dye precursor(s) and couplers with a composition containing the enzyme and substrate.

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